



# UNITED STATES PATENT AND TRADEMARK OFFICE

HA  
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/820,592	04/08/2004	Dustin L. Winters	87448RLO	8153
7590	07/27/2006		EXAMINER	
Pamela R. Crocker Patent Legal Staff Eastman Kodak Company 343 State Street Rochester, NY 14650-2201			WON, BUMSUK	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 07/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/820,592	WINTERS, DUSTIN L.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Bumsuk Won	2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 30 May 2006.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-16 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All.    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Response to Amendment***

The amendment filed on 5/30/2006 has been entered.

### ***Claim Objections***

Claims 1-7 are objected to because of the following informalities:

Regarding independent claim 1, it is unclear whether “normal red, green or blue resonated light” is normal to the substrate or the first portion of predetermined emitting area. Also, for same reason, “substantially unfiltered red, green or blue normal light” being normal to the second portion of predetermined emitting area or the substrate is unclear. Appropriate correction is required. Claims 2-7 are objected to due to claim dependency.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Borocon (US 2005/0225232).

**Regarding claim 1,** Borocon discloses an OLED device (figure 7) formed on a substrate (100), comprising: a light emitting layer (210) arranged to produce light having a portion that is normal to the substrate in a predetermined emitting area; a reflector (220) and a semi-transparent reflector (120a-120d) forming microcavity structure (paragraph 32) for resonating the light

produced in the light emitting layer to provide red, green, or blue light (paragraph 112); and a color filter element (301a-301c) disposed relative to a first portion (the portion where the filters are placed) of the predetermined emitting area so as to filter normal red, green or blue resonated light and transmit substantially unfiltered red, green or blue normal light through a second portion (the portion where the filters are not placed) of the predetermined emitting area.

**Regarding claim 2,** Boroson discloses the reflector and the semi-transparent reflector serve as electrodes for light emitting layer (paragraph 33).

**Regarding claim 3,** Boroson discloses the semi-transparent reflector is Ag or an Ag alloy (paragraph 31).

**Regarding claim 4,** Boroson discloses the device is top emitting (figure 5).

**Regarding claim 5,** Boroson discloses the device is bottom emitting (figure 7).

**Regarding claim 6,** Boroson discloses the color filter elements (figure 7, 301a-301c) include striped filtered portions (figure 7, into the page).

**Regarding claim 7,** Boroson discloses the color filter element (figure 7, 301a-301c) includes openings (two openings between 301a and 301b, and 301b and 301c) in the color filter element to provide the unfiltered light (figure 7, the emitted light will pass through the openings which will not be filtered).

**Regarding claim 8,** Boroson discloses a multicolor OLED device (figure 7) having a substrate (100) and an array of pixels (not shown) formed on the substrate that includes different subpixels (55a-55d) that emit different color light (30a-30d) wherein at least one subpixel comprises: a light emitting layer (210) arranged to produce light having a portion that is normal to the substrate in a predetermined emitting area, wherein the light produced by each subpixel is

a different color (paragraph 112); a reflector (220) and a semi-transparent reflector (120a-120d) forming a microcavity structure (paragraph 32) for resonating the light produced by each subpixel is a different color; and a color filter element (301a-301c) disposed relative to a first portion (the portion where the filters are placed) of the predetermined emitting area so as to filter the normal light and transmit substantially unfiltered normal red, green or blue light through a second portion (the portion where the filters are not placed) of the predetermined emitting area.

**Regarding claim 9,** Boroson discloses the subpixels produce red, green, and blue light (paragraph 112).

**Regarding claim 10,** Boroson discloses the reflector and the semi-transparent reflector serve as electrodes for light emitting layer (paragraph 33).

**Regarding claim 11,** Boroson discloses the semi-transparent reflector is Ag or an Ag alloy (paragraph 31).

**Regarding claim 12,** Boroson discloses the device is top emitting (figure 5).

**Regarding claim 13,** Boroson discloses the device is bottom emitting (figure 7).

**Regarding claim 14,** Boroson discloses the device further comprises active matrix circuitry (figure 7, 110) to drive the subpixels.

**Regarding claim 15,** Boroson discloses the color filter elements (figure 7, 301a-301c) include striped filtered portions (figure 7, into the page).

**Regarding claim 16,** Boroson discloses the color filter element (figure 7, 301a-301c) includes openings (two openings between 301a and 301b, and 301b and 301c) in the color filter element to provide the unfiltered light (figure 7, the emitted light will pass through the openings which will not be filtered).

***Response to Arguments***

Applicant's arguments filed on 5/30/2006 have been fully considered but they are not persuasive. Regarding the argument about Boroson not disclosing unfiltered light, the Applicant argues that Boroson does not disclose unfiltered light. The Examiner disagrees. The light generated by organic layers 210 will be transmitted through the glass substrate 100, and the area where the filters 301a 301b 301c are located, the lights will be filtered and the area where the filters are not located, the lights will be unfiltered regardless of the light being unwanted or wanted. Also, both the filtered and unfiltered light are normal to the substrate. The Examiner understands the Applicant's position on the argument having difference between the Applicant's inventive subject matter and the device disclosed by Boroson, however, the amended claimed apparatus cannot be distinguished over the prior art of Boroson as shown in 35 U.S.C. 102 rejection.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Art Unit: 2879

however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

***Contact information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bumsuk Won whose telephone number is 571-272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Bumsuk Won  
Patent Examiner



**JOSEPH WILLIAMS  
PRIMARY EXAMINER**